

201

23 HW

1. $p \rightarrow q$ 1-3, 7, 9, 10
 $\sim q \rightarrow \sim p$

2. $p \rightarrow q$ If polygon ABCDE is equiangular, + equilateral then it is a regular polygon

3. $\sim p$ Polygon ABCDE is not equiangular + equilateral.

7. $\sim p \rightarrow q$

p	q	$\sim p$	$\sim p \rightarrow q$
T	T	F	T
T	F	F	T
F	T	T	T
F	F	T	F

$\sim (q \rightarrow p)$

9.

p	q	$q \rightarrow p$	$\sim (q \rightarrow p)$
T	T	T	F
T	F	T	F
F	T	F	T
F	F	T	F

10. a. $\sim (p \vee q)$

p	q	$p \vee q$	$\sim (p \vee q)$
T	T	T	F
T	F	T	F
F	T	T	F
F	F	F	T

c. same end result

b.

p	q	$\sim p$	$\sim q$	$(\sim p \wedge \sim q)$
T	T	F	F	F
T	F	F	T	F
F	T	T	F	F
F	F	T	T	T